1.

```
SEQUENCE LISTING
       The University of Melbourne
<110>
       Antimicrobial Composition WJP PJXC 03 1377 3773
<120>
<130>
<160>
       10
<170>
       PatentIn version 3.3
<210>
<211>
       21
<212>
        PRT
<213>
       Bovine
<221>
       MOD_RES
        (12)..(12)
<222>
<223>
        PHOSPHORYLATION
<400>
Ala Val Glu Ser Thr Val Ala Thr Leu Glu Ala Ser Pro Glu Val Ile
Glu Ser Pro Pro Glu
             20
<210>
<211>
       2
21
<212>
       PRT
<213>
       Bovine
<221>
       MOD_RES
<222>
<223>
       (12\bar{)}..(12)
       PHOSPHORYLATION
<400>
Ala Val Glu Ser Thr Val Ala Thr Leu Glu Asp Ser Pro Glu Val Ile
                                        10
Glu Ser Pro Pro Glu
             20
<210>
<211>
       64
<212>
       PRT
<213>
       bovine
<221>
       MOD_RES
<222>
       (44)..(44)
<223>
       PHOSPHORYLATION
<400>
Met Ala Ile Pro Pro Lys Lys Asn Gln Asp Lys Thr Glu Ile Pro Thr
                                       10
Ile Asn Thr Ile Ala Ser Gly Glu Pro Thr Ser Thr Pro Thr Ile Glu
                                   25
                                                         30
Ala Val Glu Ser Thr Val Ala Thr Leu Glu Ala Ser Pro Glu Val Ile
                              40
                                                     45
Glu Ser Pro Pro Glu Ile Asn Thr Val Gln Val Thr Ser Thr Ala Val
<210>
<211>
       64
<212>
       PRT
<213>
       bovine
<221>
       MOD_RES
<222>
       (22)..(22)
<223>
       PHOSPHORYLATION
<221>
       MOD_RES (44)..(44)
<222>
<223>
       PHOSPHORYLATION
<400>
```

Met Ala Ile Pro Pro Lys Lys Asn Gln Asp Lys Thr Glu Ile Pro Thr

2.

10 15 16 Asn Thr Ile Ala Ser Gly Glu Pro Thr Ser Thr Pro Thr Ile Glu 20 25 Ala Val Glu Ser Thr Val Ala Thr Leu Glu Ala Ser Pro Glu Val Ile 35 40 45 Glu Ser Pro Pro Glu Ile Asn Thr Val Gln Val Thr Ser Thr Ala Val 50 55 60

<210> 5
<211> 64
<212> PRT
<213> bovine
<221> MOD_RES
<222> (44)..(44)
<223> PHOSPHORYLATION
<400> 5

<210> <211> 64 <212> PRT <213> bovine MOD_RES <221> <222> (22)..(22)<223> **PHOSPHORYLATION** MOD_RES (44)..(44) <221> <222> <223> **PHOSPHORYLATION** <400>

Met Ala Ile Pro Pro Lys Lys Asn Gln Asp Lys Thr Glu Ile Pro Thr 10 15 15 11e Asn Thr Ile Ala Ser Gly Glu Pro Thr Ser Thr Pro Thr Thr Glu 20 25 30 Ala Val Glu Ser Thr Val Ala Thr Leu Glu Asp Ser Pro Glu Val Ile 35 Glu Ser Pro Pro Glu Ile Asn Thr Val Gln Val Thr Ser Thr Ala Val 50 55 60

<210> 7 <211> 53 <212> PRT <213> bovine <221> MOD_RES <222> (33)..(33) <223> PHOSPHORYLATION <400> 7

Thr Glu Ile Pro Thr Ile Asn Thr Ile Ala Ser Gly Glu Pro Thr Ser 10 15

Thr Pro Thr Ile Glu Ala Val Glu Ser Thr Val Ala Thr Leu Glu Ala 20 25 30

Ser Pro Glu Val Ile Glu Ser Pro Pro Glu Ile Asn Thr Val Gln Val 35

Thr Ser Thr Ala Val 50

<210> 8 <211> 53

3.

```
<212>
       PRT
<213>
       bovine
<221>
       MOD_RES
<222>
       (11)..(11)
<223>
<221>
       PHOSPHORYLATION
       MOD_RES
<222>
       (33)..(33)
<223>
       PHOSPHORYLATION
<400>
```

Thr Glu Ile Pro Thr Ile Asn Thr Ile Ala Ser Gly Glu Pro Thr Ser 10 15 Thr Pro Thr Ile Glu Ala Val Glu Ser Thr Val Ala Thr Leu Glu Ala 20 Ser Pro Glu Val Ile Glu Ser Pro Pro Glu Ile Asn Thr Val Gln Val 35 40 45 Thr Ser Thr Ala Val

```
<210> 9
<211> 53
<212> PRT
<213> bovine
<221> MOD_RES
<222> (33)..(33)
<223> PHOSPHORYLATION
<400> 9
```

Thr Glu Ile Pro Thr Ile Asn Thr Ile Ala Ser Gly Glu Pro Thr Ser 10 15 Thr Pro Thr Thr Glu Ala Val Glu Ser Thr Val Ala Thr Leu Glu Asp 20 Ser Pro Glu Val Ile Glu Ser Pro Pro Glu Ile Asn Thr Val Gln Val 35 Thr Ser Thr Ala Val 45

```
<210>
        10
        53
<211>
<212>
        PRT
<213>
       bovine
<221>
<222>
       MOD_RES (11)..(11)
<223>
        PHOSPHORYLATION
<221>
       MOD_RES
<222>
<223>
       (33)..(33)
        PHOSPHORYLATION
<400>
        10
```

Thr Glu Ile Pro Thr Ile Asn Thr Ile Ala Ser Gly Glu Pro Thr Ser 10 15

Thr Pro Thr Thr Glu Ala Val Glu Ser Thr Val Ala Thr Leu Glu Asp 20 25 30

Ser Pro Glu Val Ile Glu Ser Pro Pro Glu Ile Asn Thr Val Gln Val 35 40 45

Thr Ser Thr Ala Val 50